ETG. 1A

FIG. 18

Physical address format

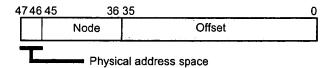


FIG. 2A

Physical Address Map

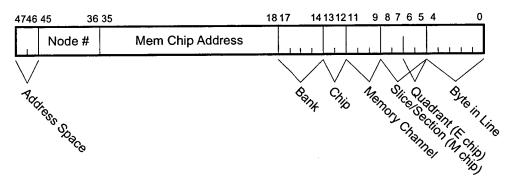
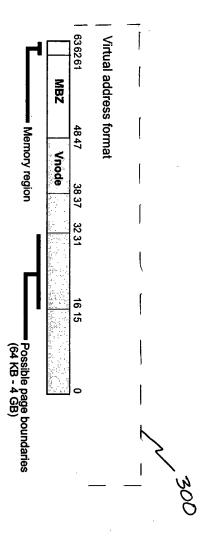
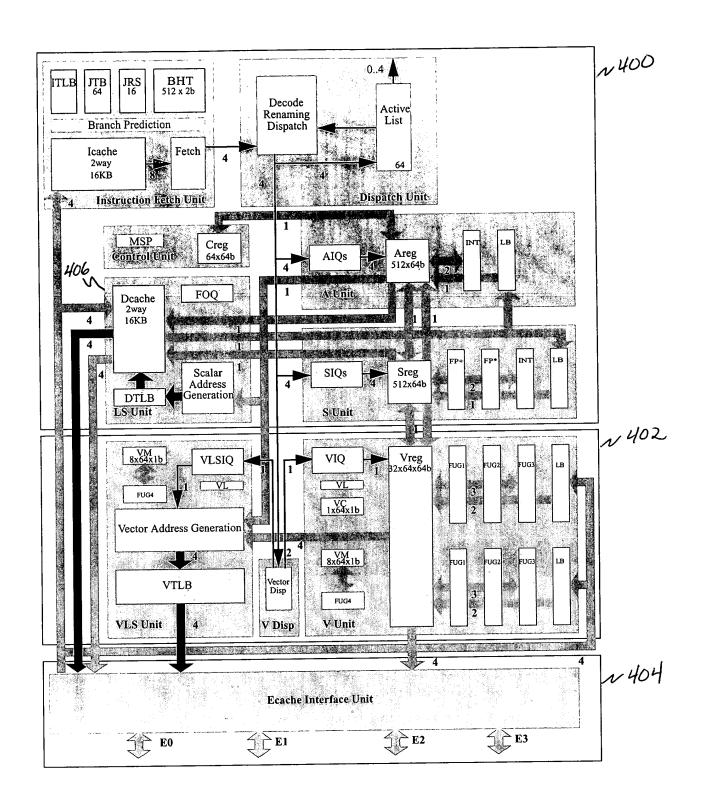


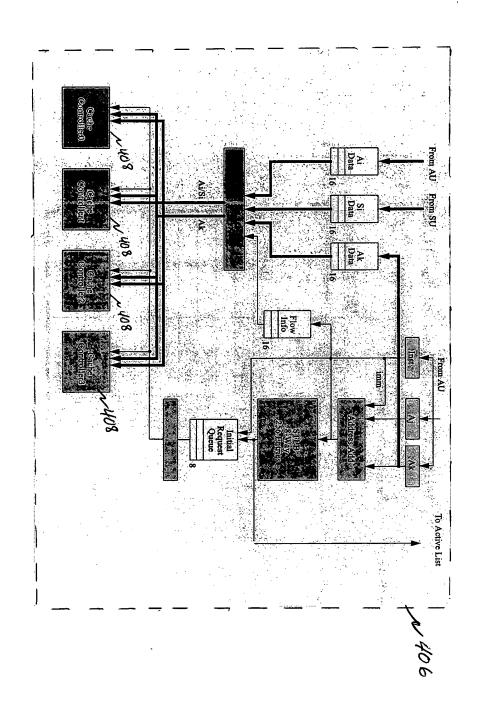
FIG. 2B

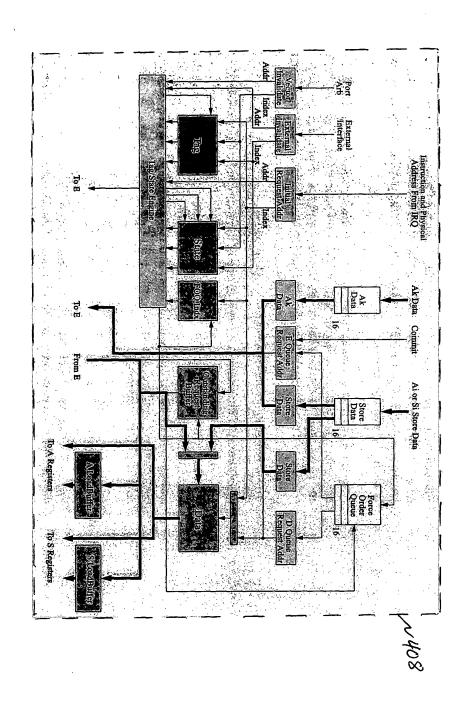
FIG. 3





-FIG.4A





			FOQ Index	Action										
Dcache Bypass	Initial Request	Tag & State	Match	Msg to E	D\$	FOQ entry	E	D	P	Allocate	ORB Entry	Other		
No	Read	Miss	No	Read		Dummy		x	х	LRU Way	Read			
			Yes			ReadUC	х				Read not			
		Hit	No		Read									
			Yes‡			Read		х						
	ReadShared	Miss	No	ReadShared		Dummy		х	х	LRU Way	Read			
			Yes			ReadUC- Shared	x				Read no			
		Hit	No		Read									
			Yestt			Read	•	x						
	ReadNA	Miss	No	ReadNA							Read no			
	1		Yes			ReadNA	x				Read no			
]	Hit	No		Read									
			Yes			Read		x						
	Write	Miss	No	ReadMod		SWrite	х	x	х	LRU Way	Read			
			Yes			SWrite	x							
		Hit	No			SWrite	x	x						
			Yes											
	WriteNA	Miss	No			SWriteNA	x							
			Yes					1						
		Hit	No			SWrite	x	х						
			Yes											
	Prefetch	Miss	No									Discard		
	(to discard)		Yes											
		Hit	No											
	1		Yes	1		į į			1					

FIG. 4D

,410

Dcache Bypass	Initial Request	Tag & State	FOQ	Action										
			Index Match	Msg to E	D\$	FOQ entry	E	D	P	Allocate	ORB Entry	Other	r41	
Yes	Read	Miss	No			ReadUC	x				Read nc			
			Yes				ľ							
		Hit	No			-			1	Invalidate				
			Yes		<u> </u>									
	ReadShared	Miss	No			ReadUC-	x				Read no			
			Yes			Shared			ļ					
		Hit	No			1			}	Invalidate				
			Yes											
	ReadNA	Miss	No			ReadNA	х				Read no	!		
			Yes						ŀ		j	, i		
		Hit	No		1					Invalidate			ŀ	
			Yes								<u> </u>			
	Write	Miss	No			SWrite	x		1					
			Yes											
		Hit	No					x			ļ			
			Yes				l	<u> </u>		<u> </u>				
	WriteNA	Miss	No		1	SWriteNA	x							
			Yes	i			1							
		Hit	No					x						
			Yes			l .				<u></u>				
	Prefetch (to discard)	Miss	No									Discard		
			Yes											
		Hit	No											
			Yes					<u> </u>						
	IORead					ReadNA to IO space	×			ļ	Read nc			
المراجعين	IOWrite					SWriteNA to IO space	x	ļ						
##* '무기'	afadd ‡‡	3.70. 3.05.				afadd (1 dw)	X	<u> </u>	1		Read no	ļ		
	afax					afax (2 dw)	X	<u> </u>	ļ	ļ	Read nc	ļ <u>-</u>		
	acswap	<u> </u>				acswap (2 dw)	X	ļ	↓	ļ	Read no			
	aadd					aadd (1 dw)	X		ـــــ					
	aax					aax (2 dw)	X	<u> </u>						
	Lsync_s_v					Lsync_s_v	x	ļ	↓_		 	<u> </u>	Į	
	Lsync_v_s					Lsync_v_s	x	ļ	1		ļ	Hold IRQ	•	
	Msync					Msync	x					Bypass Mode On		
	Msync P Msync V					Msync	x							
		L. Cold sector occasion			1	Gsync	x	T	1				•	

[†]A "Read nc" ORB entry specifies that the returning data will not be cached. Both ReadNA amd ReadUC requests use "Read nc" ORB entries. (A ReadNA tells the Ecache not to allocate the line. A ReadUC tells the Ecache that the *P chip* will not be caching the line but the Ecache still should.)

FIG. 4E

[‡]Do more sophisticated match here (require pending or word match)

^{††}Do more sophisticated match here (require pending or word match)

^{‡‡}These five packet types are AMOs. The FOQ column indicates how many dwords of data accompany the request. Three of the AMOs return data, and two do not.